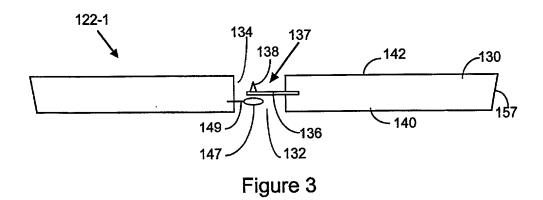
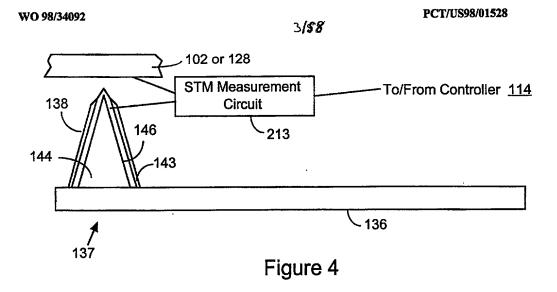
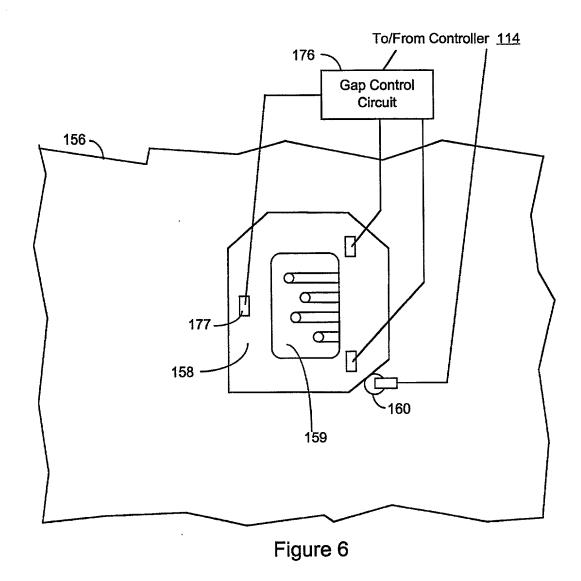


Figure 2

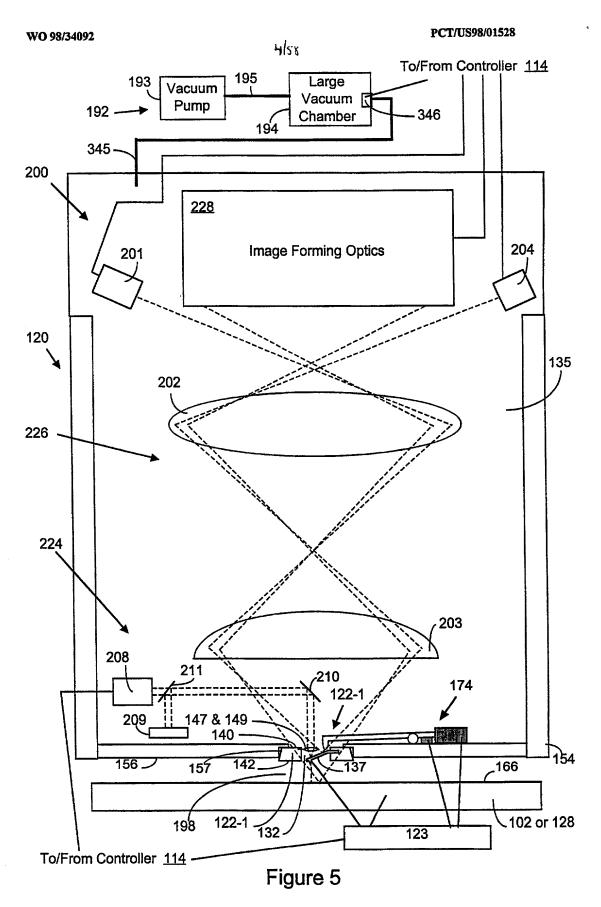


SUBSTITUTE SHEET (RULE 26)





SUBSTITUTE SHEET (RULE 26)



SUBSTITUTE SHEET (RULE 26)

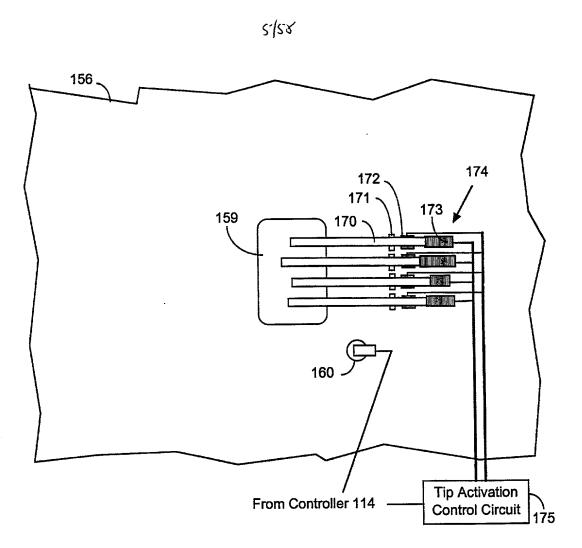


Figure 7

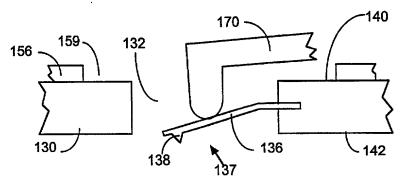


Figure 8

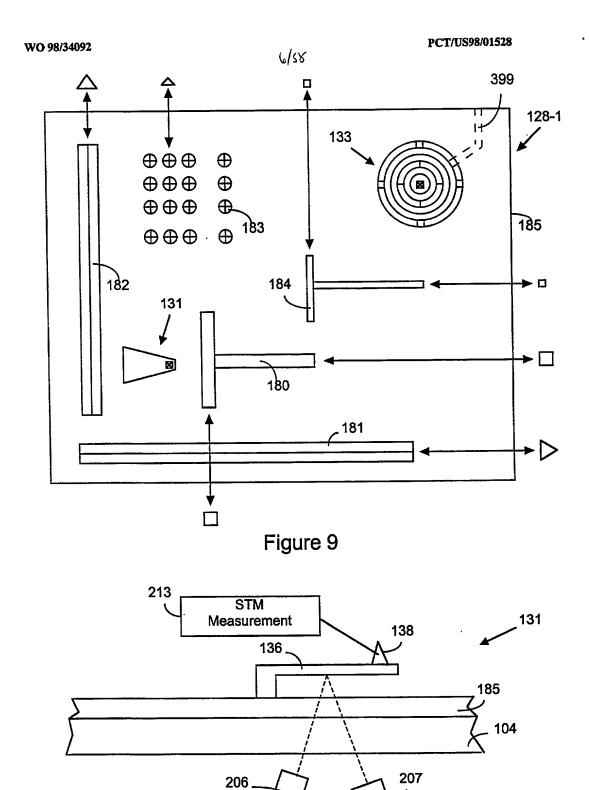


Figure 10 substitute sheet (RULE 26)

To/From Controller 114

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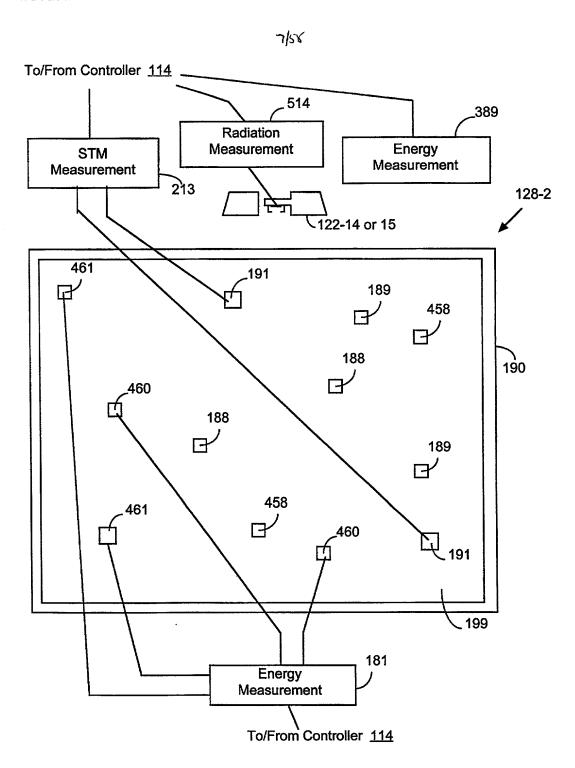
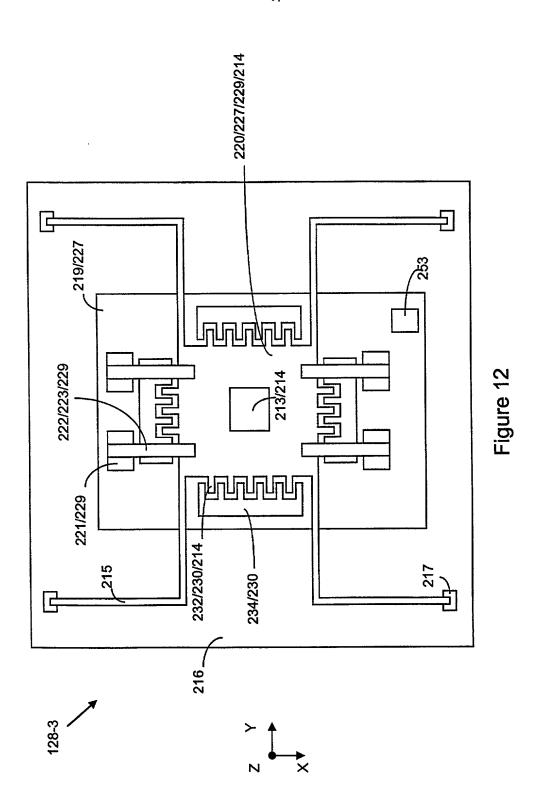


Figure 11

8|58



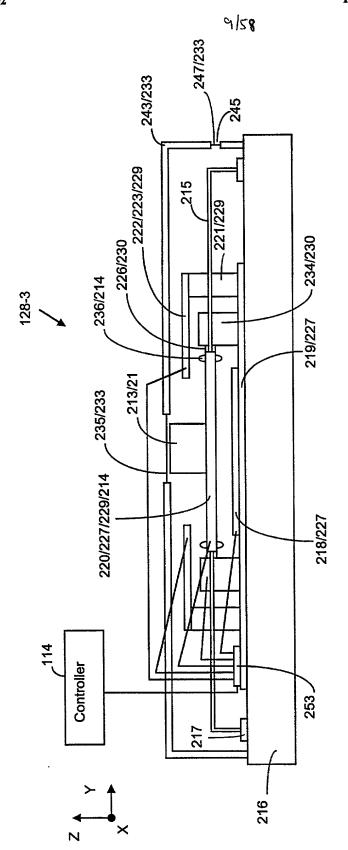
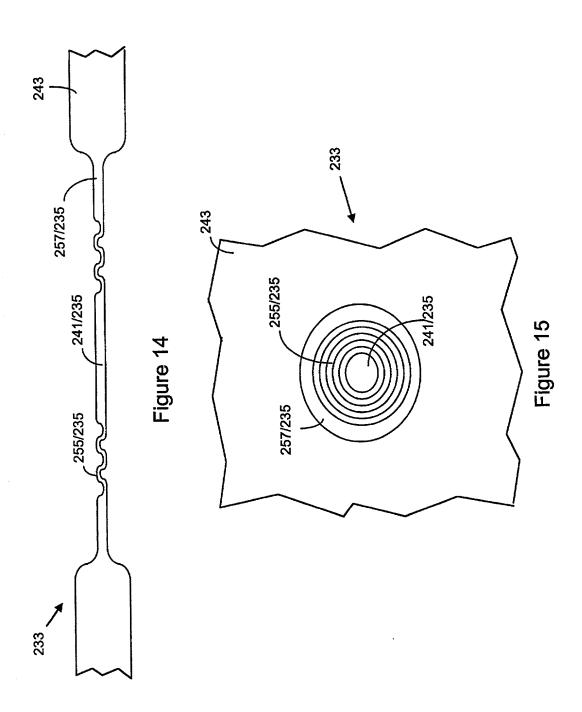


Figure 13

10 58



...

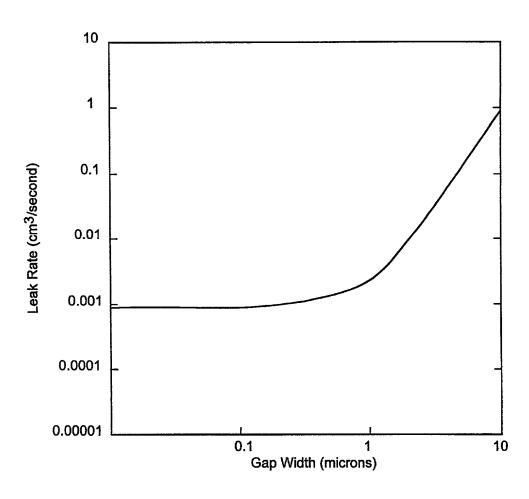


Figure 16

12/58

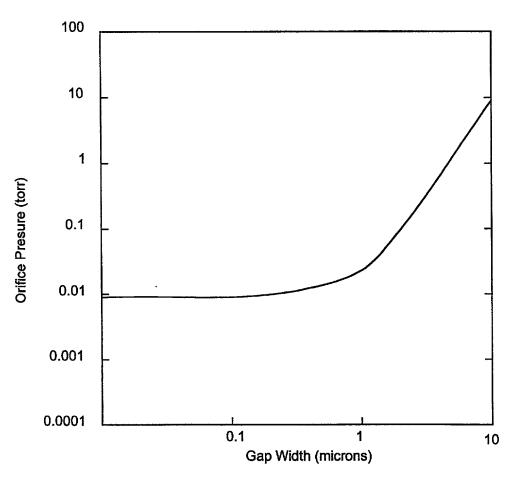
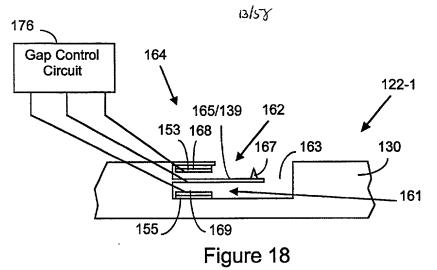
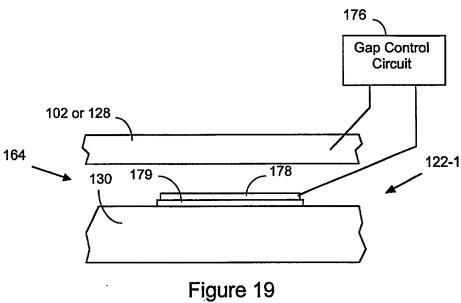


Figure 17





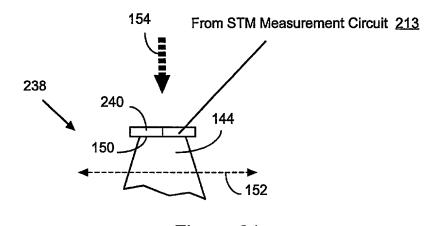


Figure 21
SUBSTITUTE SHEET (RULE 26)

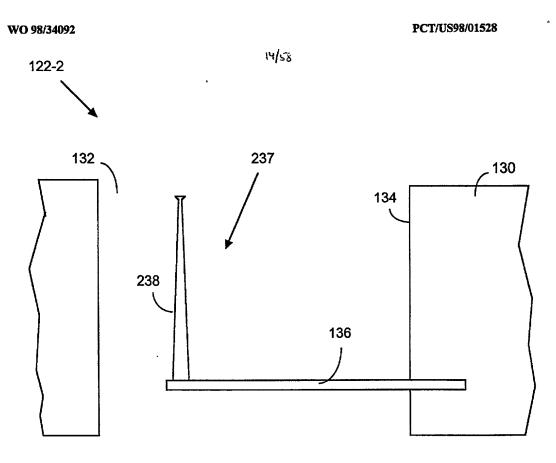
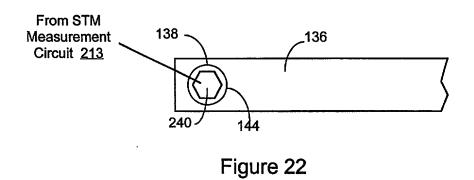


Figure 20



From STM
Measurement
Circuit 213

138

136

240

144

Figure 23

SUBSTITUTE SHEET (RULE 26)



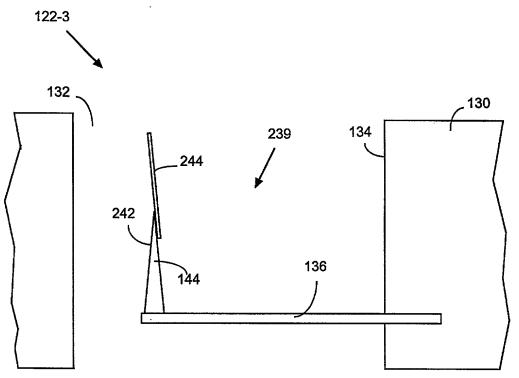


Figure 24

From STM Measurement Circuit 213

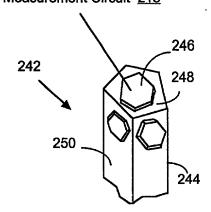


Figure 25

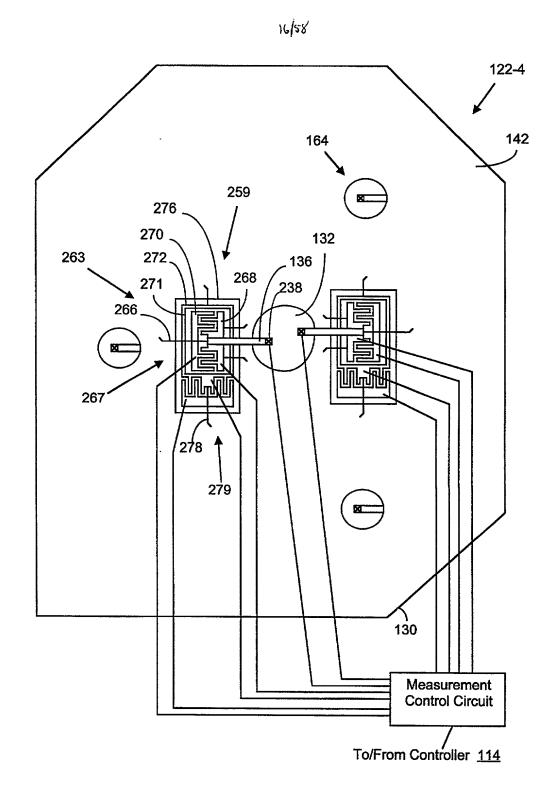


Figure 26
SUBSTITUTE SHEET (RULE 26)

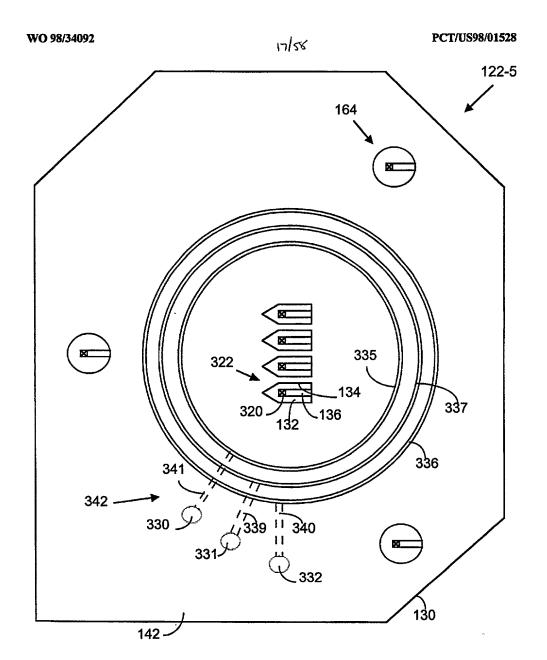


Figure 27

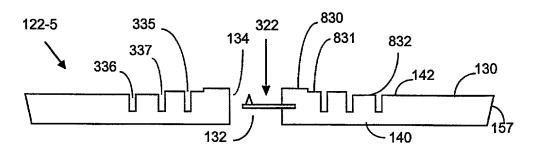


Figure 86

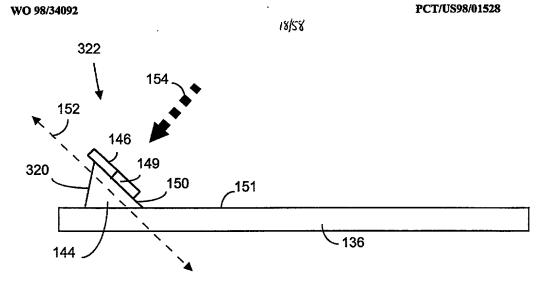


Figure 28

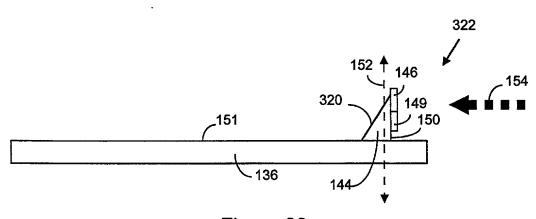
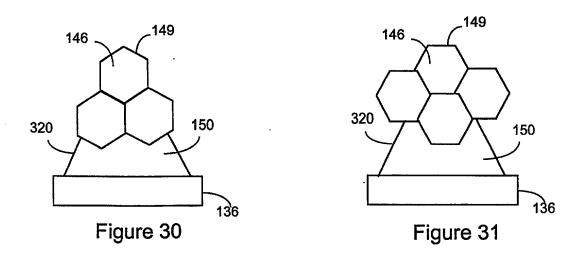
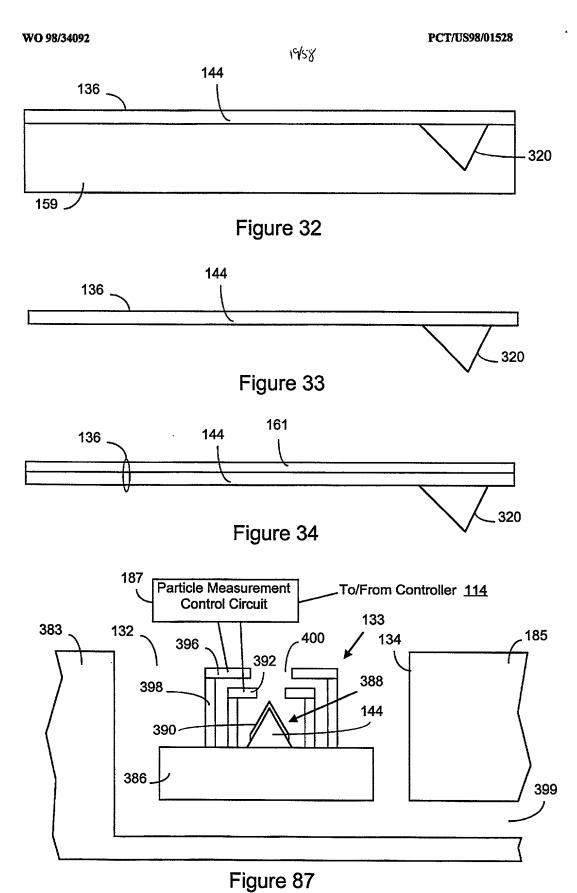


Figure 29



SUBSTITUTE SHEET (RULE 26)



SUBSTITUTE SHEET (RULE 26)

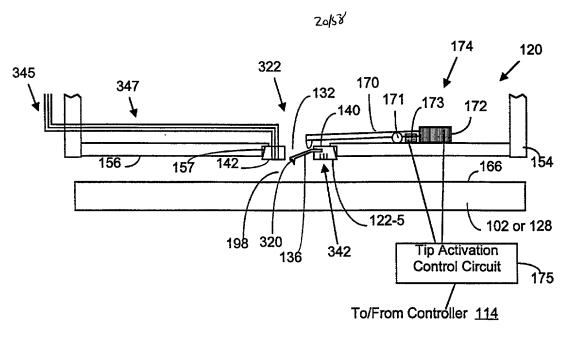
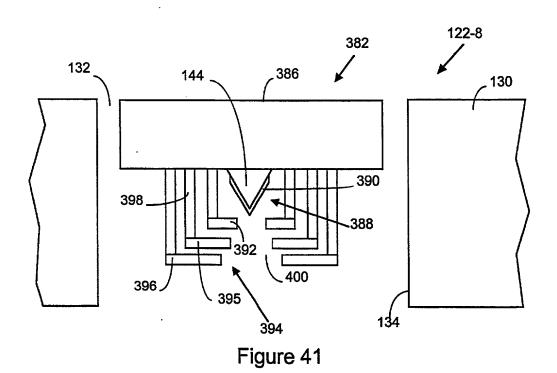


Figure 35



SUBSTITUTE SHEET (RULE 26)

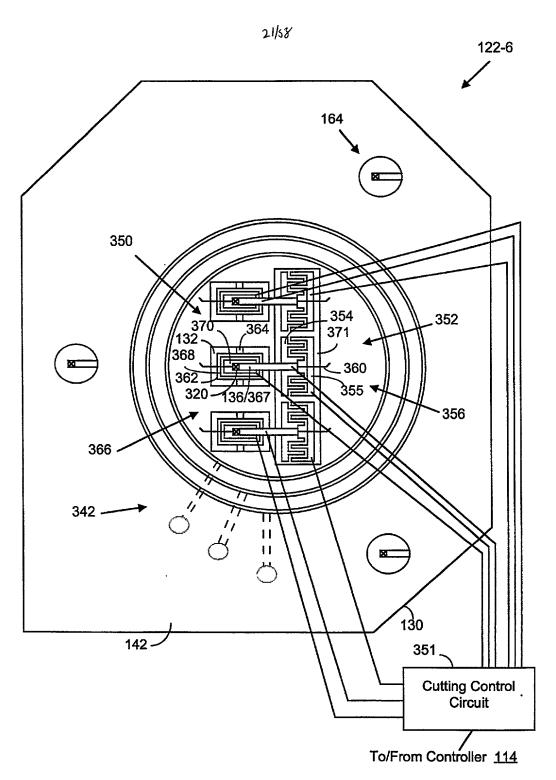


Figure 36

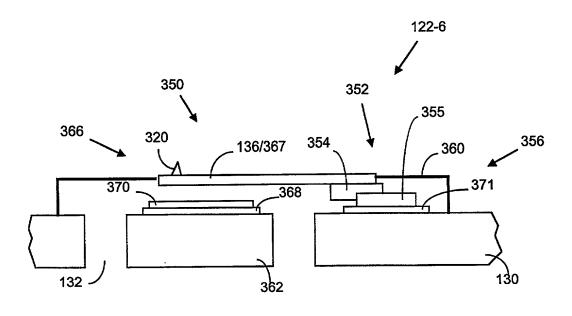


Figure 37

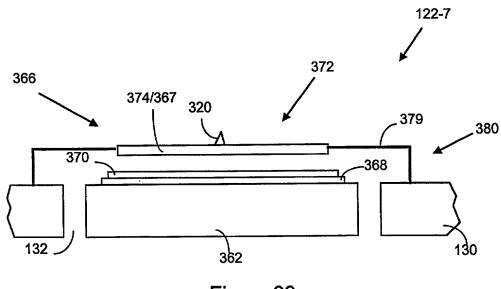


Figure 39

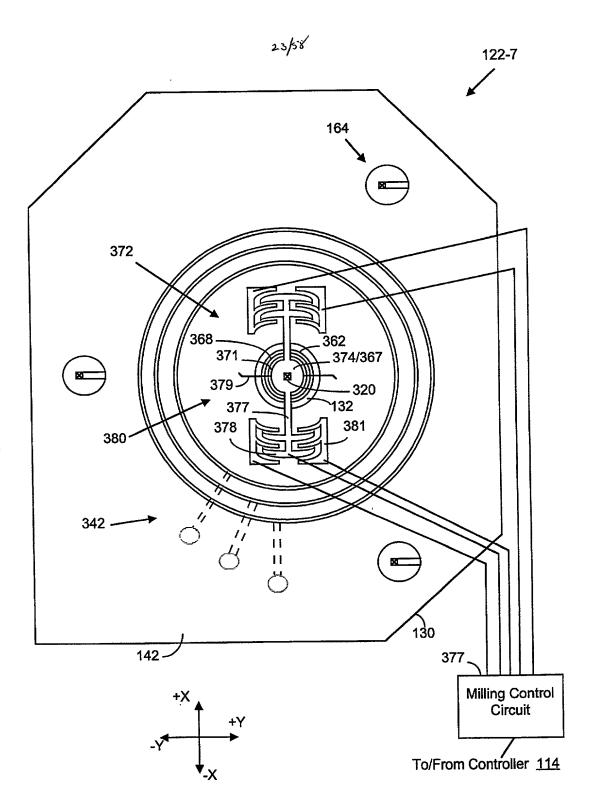


Figure 38 SUBSTITUTE SHEET (RULE 26)

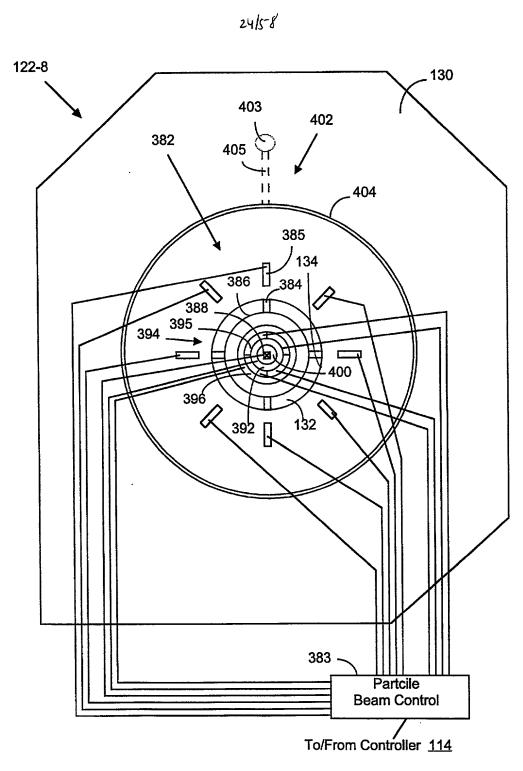


Figure 40 substitute sheet (RULE 26)

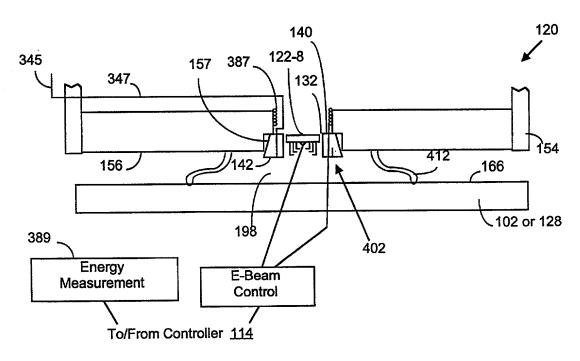


Figure 42

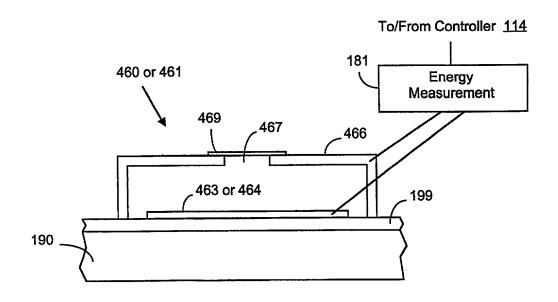


Figure 52 SUBSTITUTE SHEET (RULE 26)

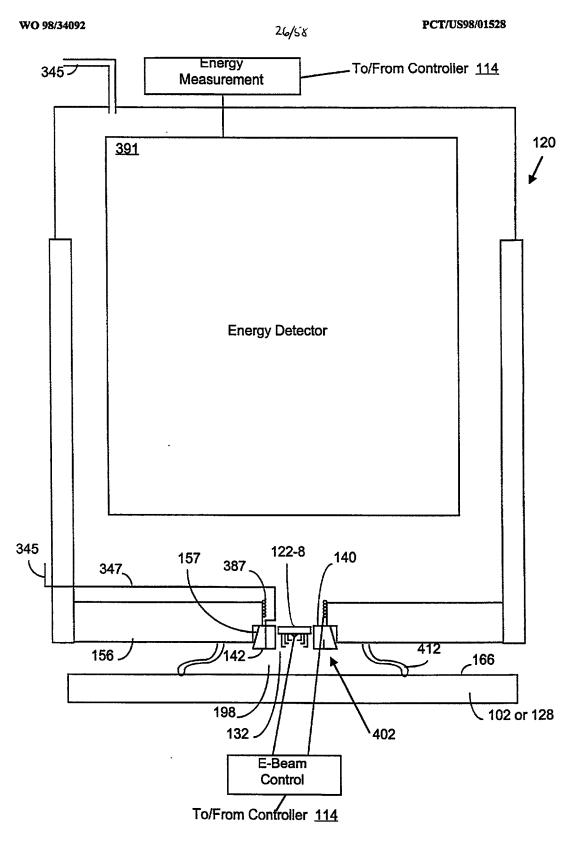


Figure 43 SUBSTITUTE SHEET (RULE 26)



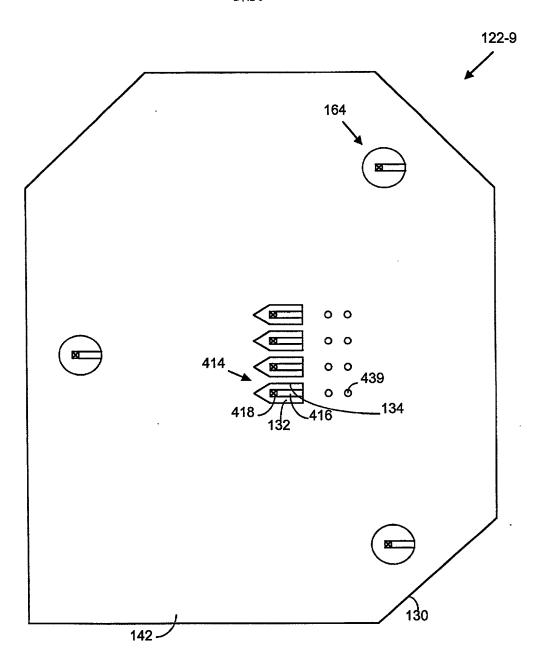


Figure 44

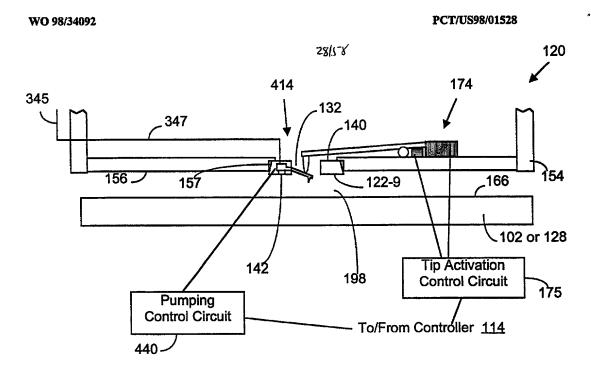
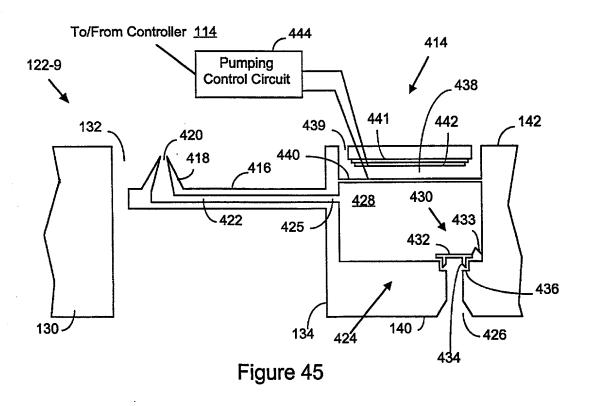


Figure 46



SUBSTITUTE SHEET (RULE 26)

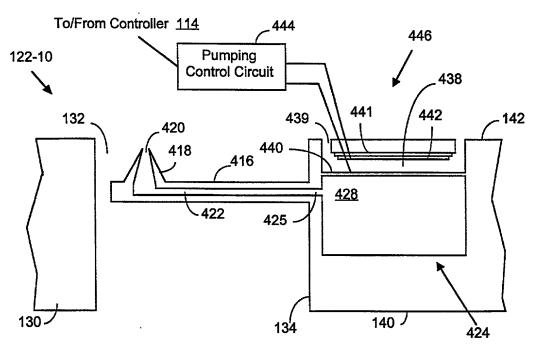


Figure 48

142

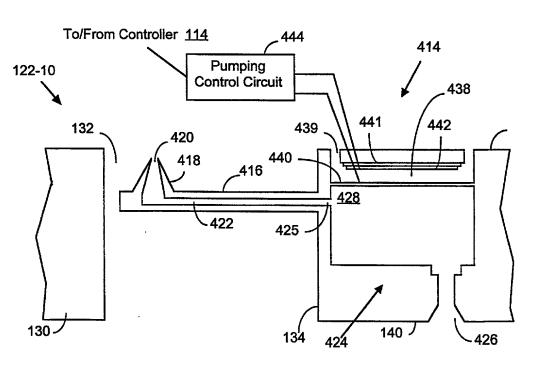


Figure 47

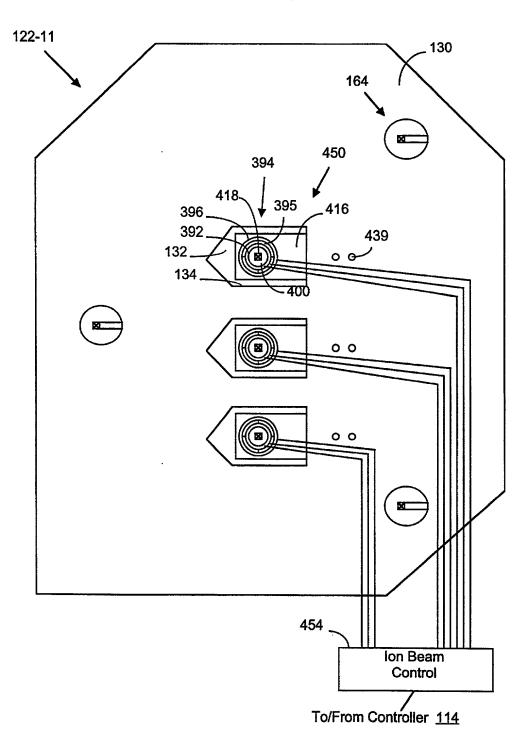


Figure 49

PCT/US98/01528 WO 98/34092 31/58 To/From Controller 114 454 Ion Beam Control 122-11 Pumping Control Circuit 450 394 438 400 395 396 420 441 442 439 142 _392 440 418 430 <u>428</u> 433 432 425 422 398 436 - 130 140 134 426 424 132 434 Figure 50 120 450 174 345 132 347 154 122-11 156 157 166 398 .102 or 128 _198 Energy Measurement **Tip Activation** 142 **Control Circuit** 175 Pumping Ion Beam **Control Circuit Control Circuit**

Figure 51

To/From Controller 114



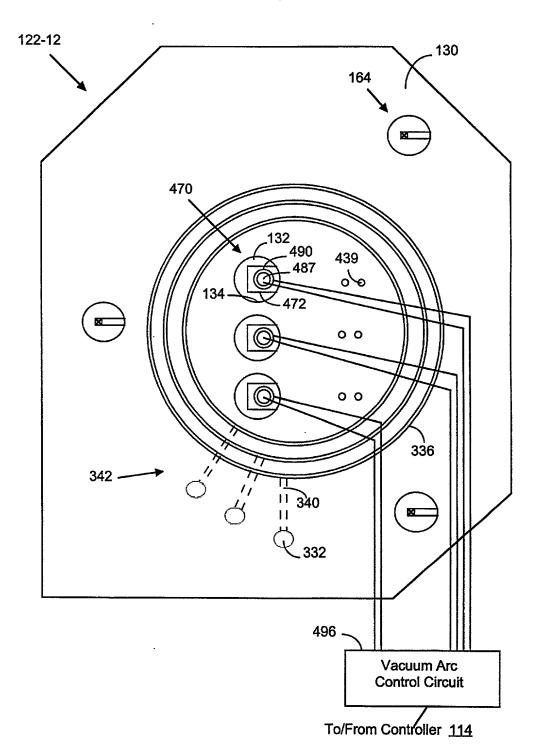


Figure 53

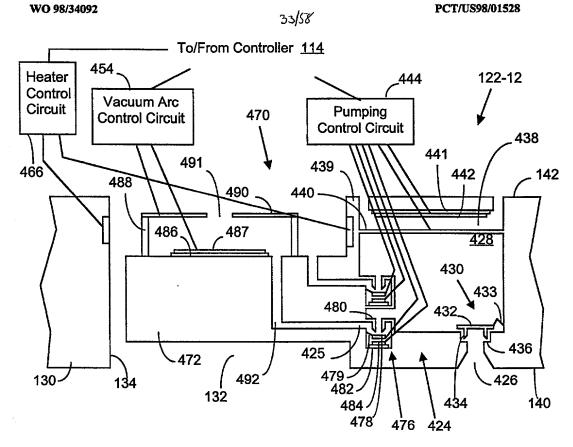


Figure 54

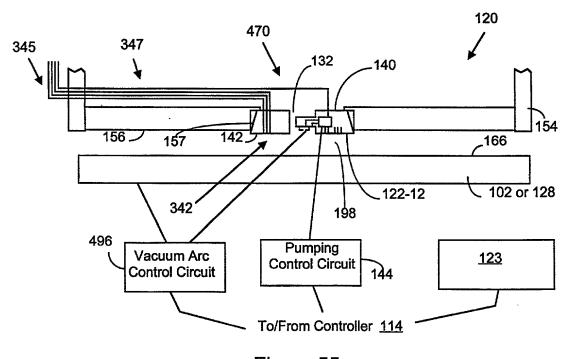


Figure 55

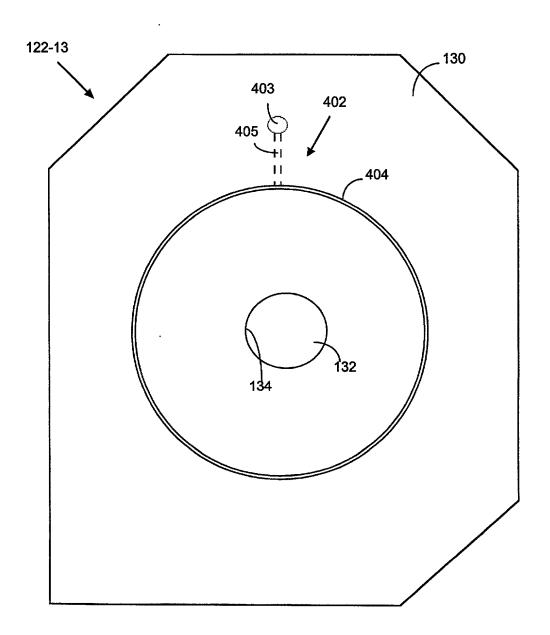


Figure 56

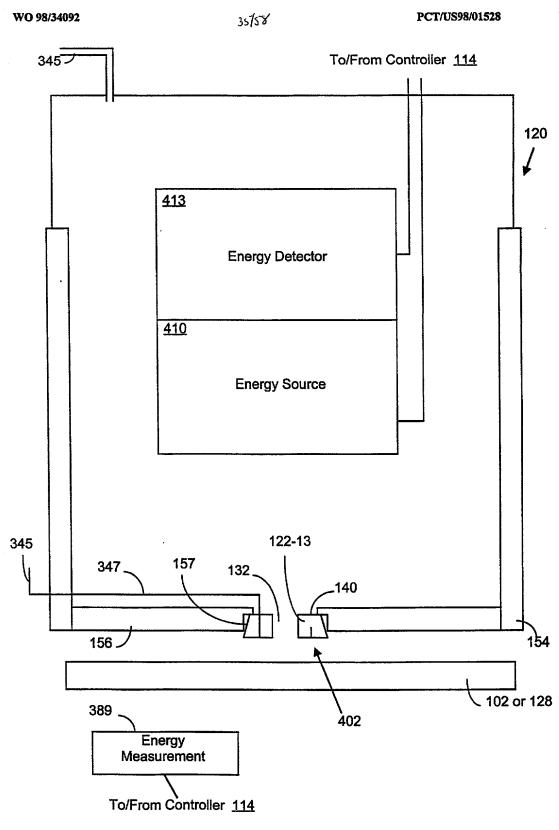


Figure 57

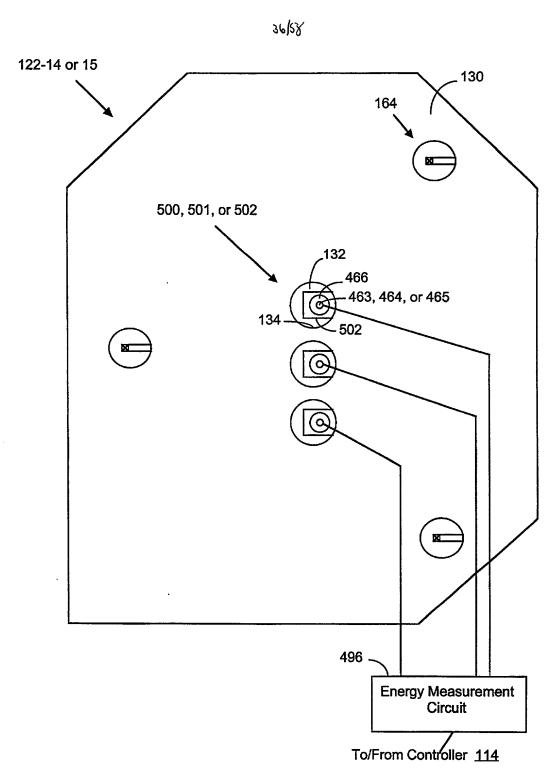


Figure 58

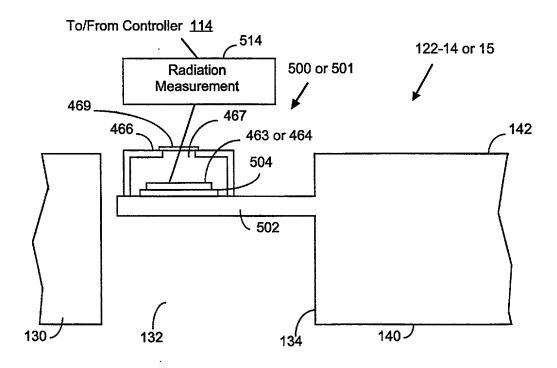


Figure 59

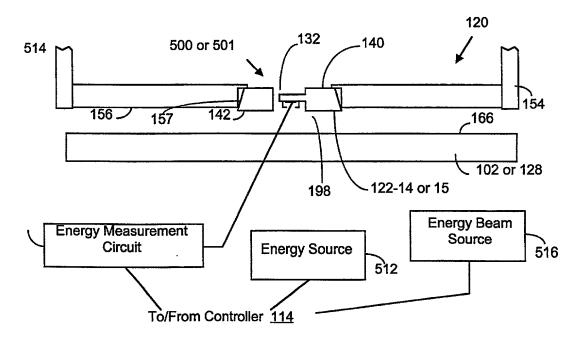


Figure 60

SUBSTITUTE SHEET (RULE 26)

WO 98/34092 PCT/US98/01528

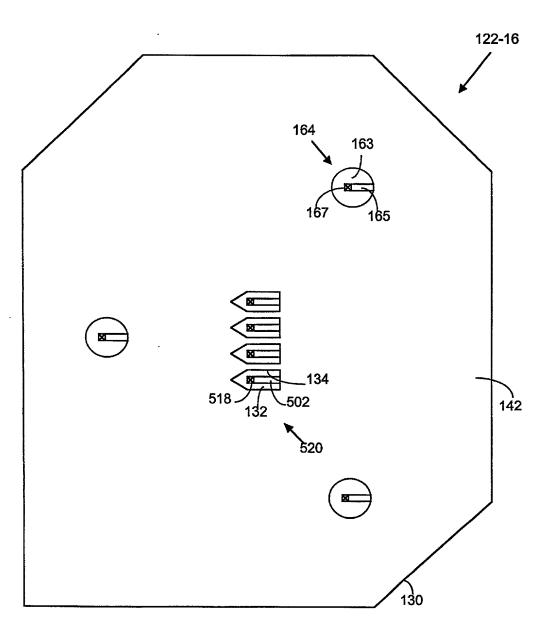


Figure 61

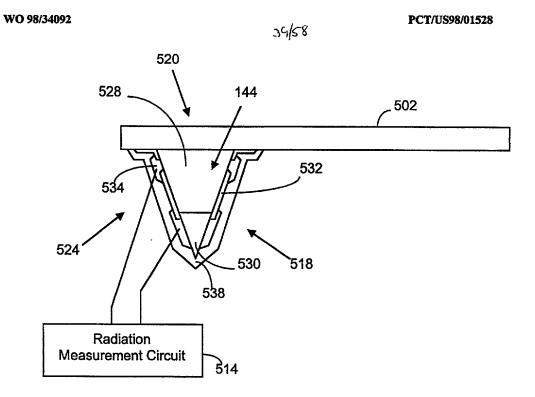


Figure 62

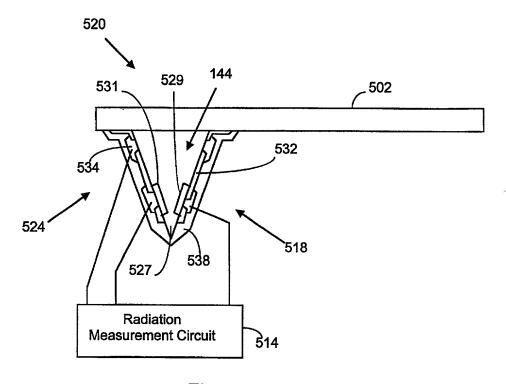


Figure 63

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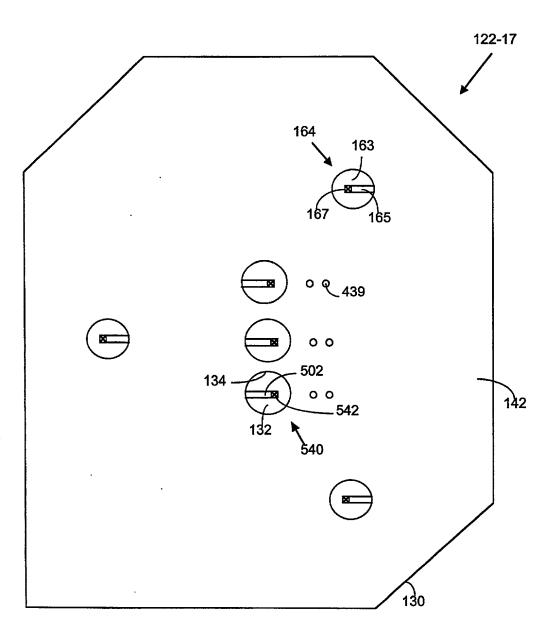


Figure 64

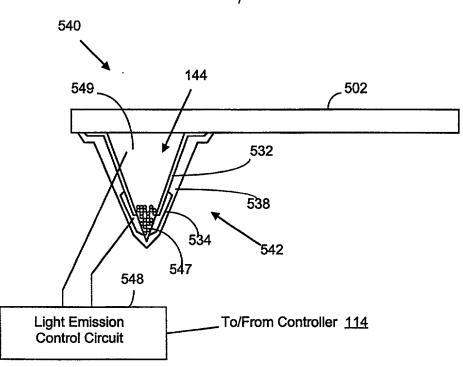
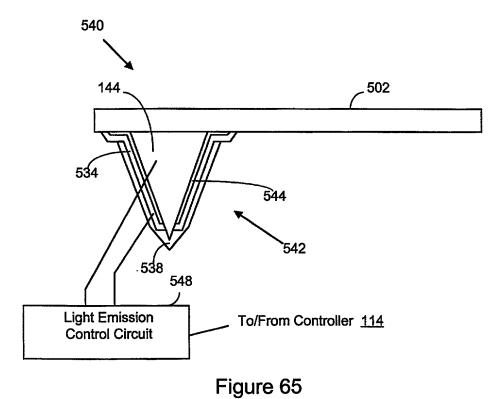


Figure 66



SUBSTITUTE SHEET (RULE 26)

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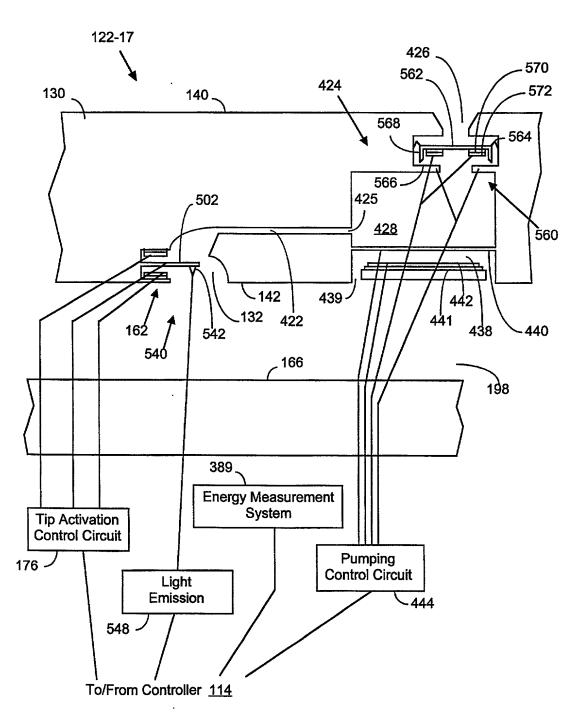


Figure 67

WO 98/34092 PCT/US98/01528



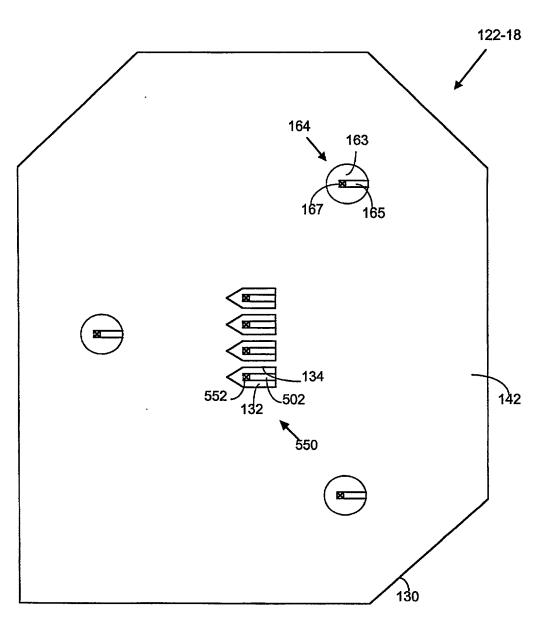


Figure 68

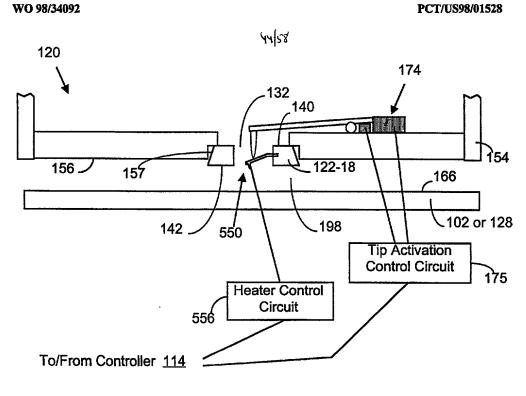
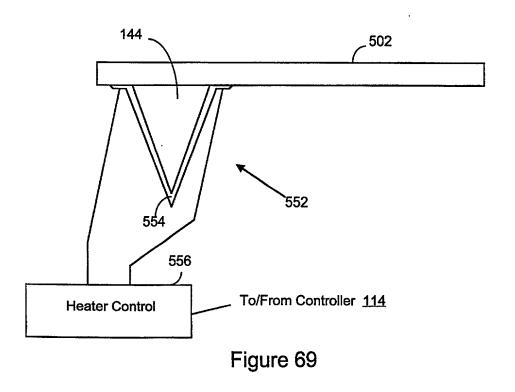


Figure 70



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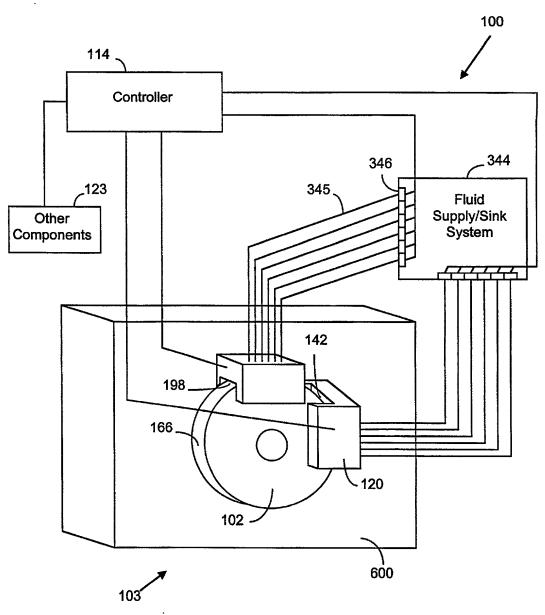


Figure 71

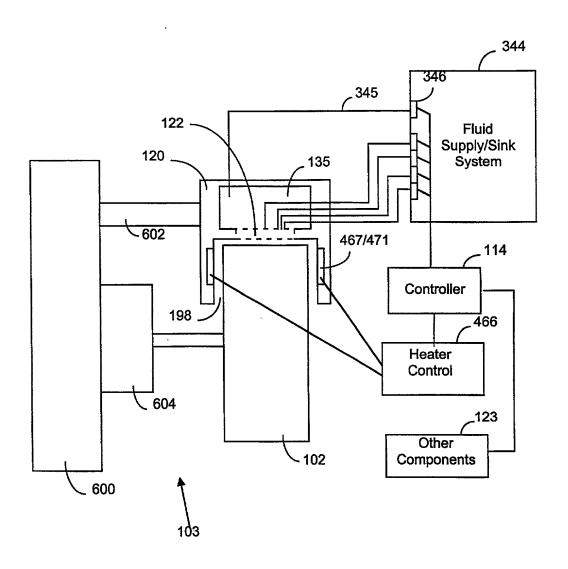


Figure 72

relch

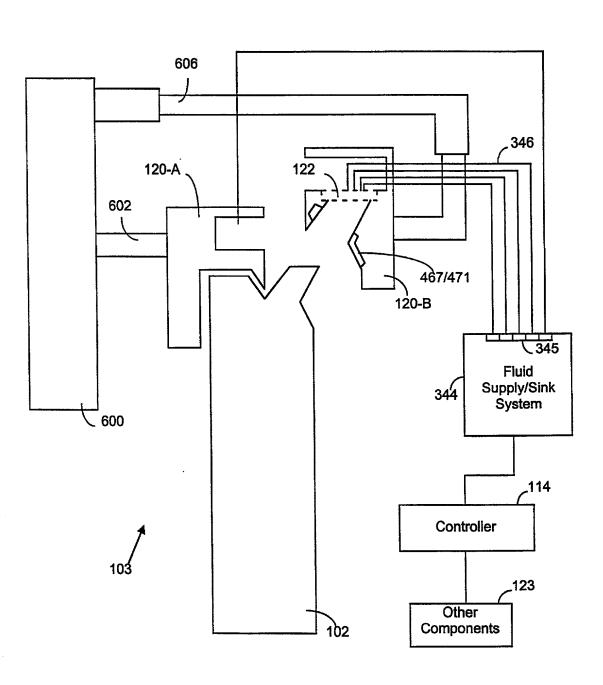


Figure 73

SUBSTITUTE SHEET (RULE 26)

4818

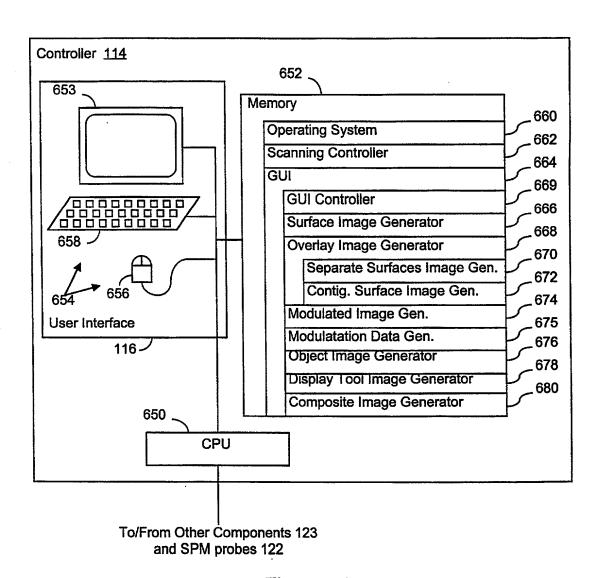
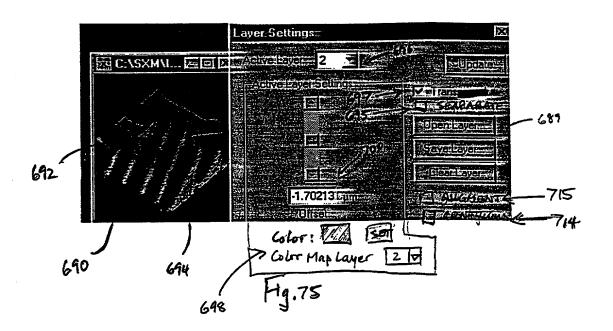
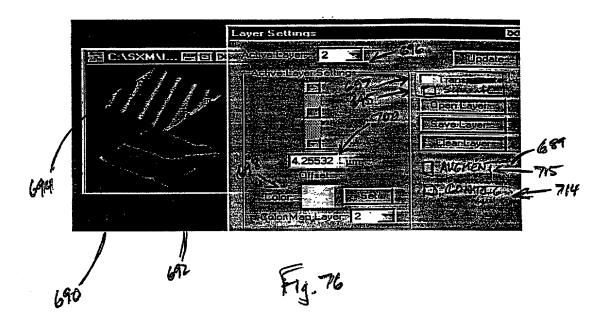


Figure 74





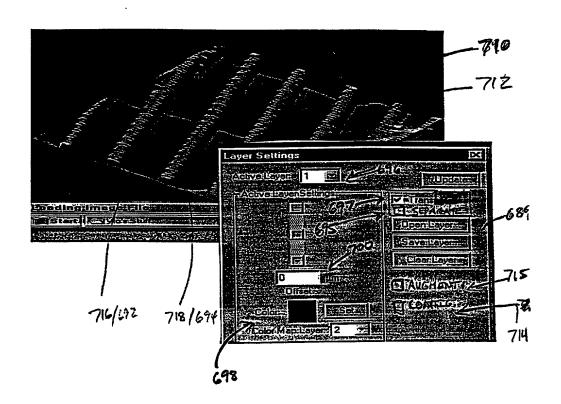


Fig. 77

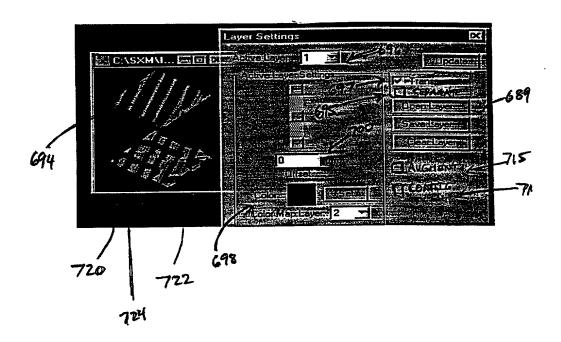
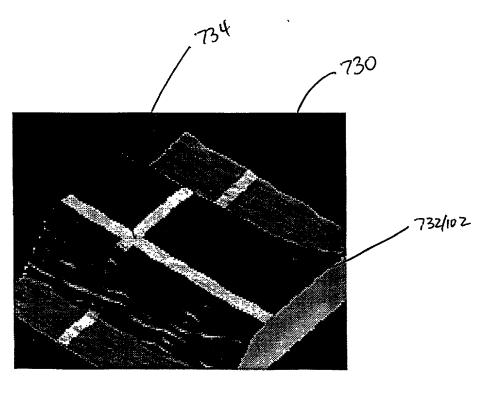


Fig. 78



Fg. 79

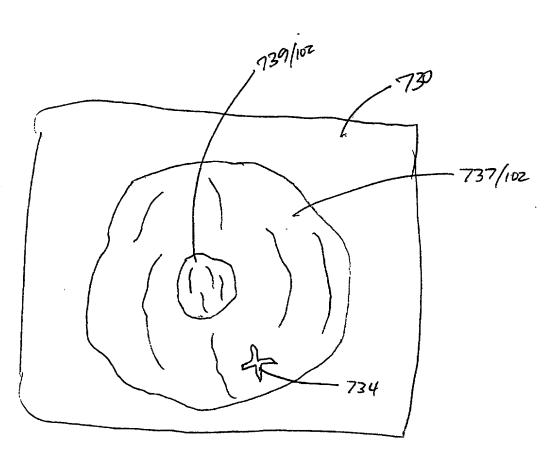


Fig. 80

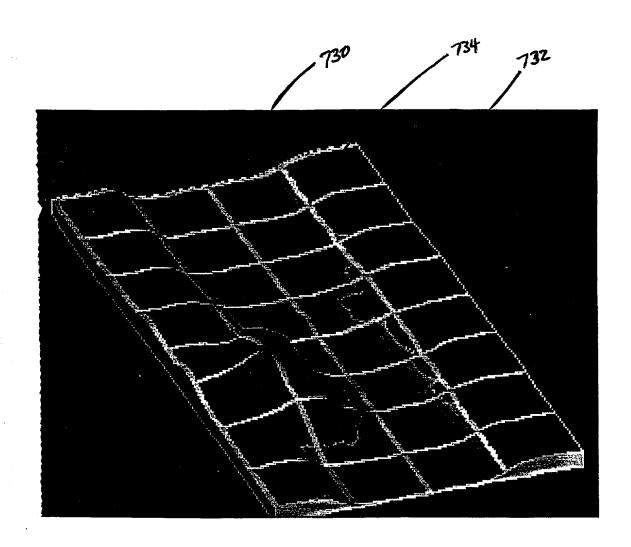


Fig. 81

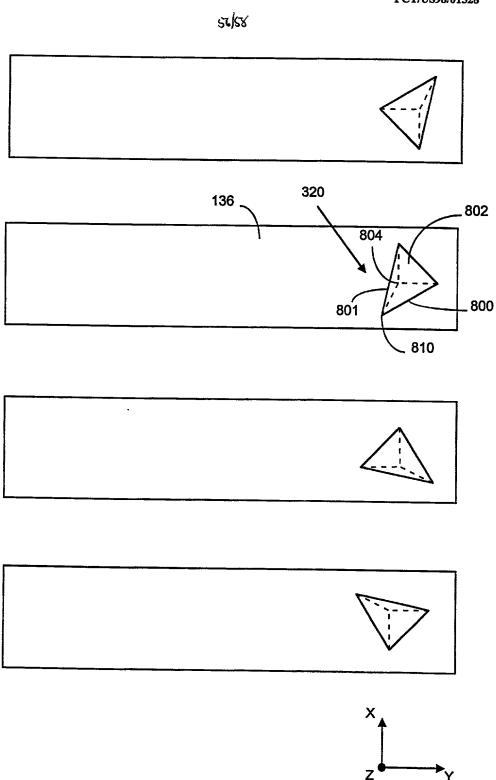


Figure 82

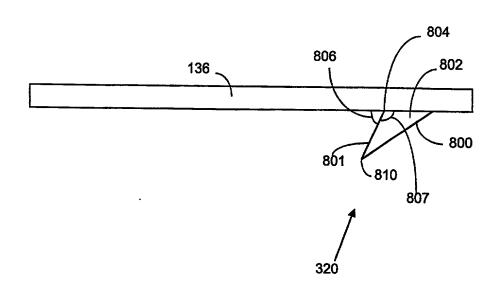


Figure 83

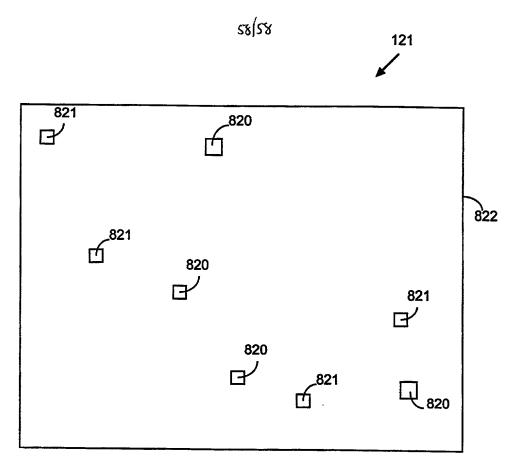


Figure 84

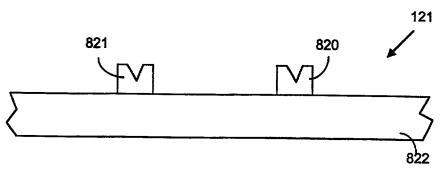


Figure 85